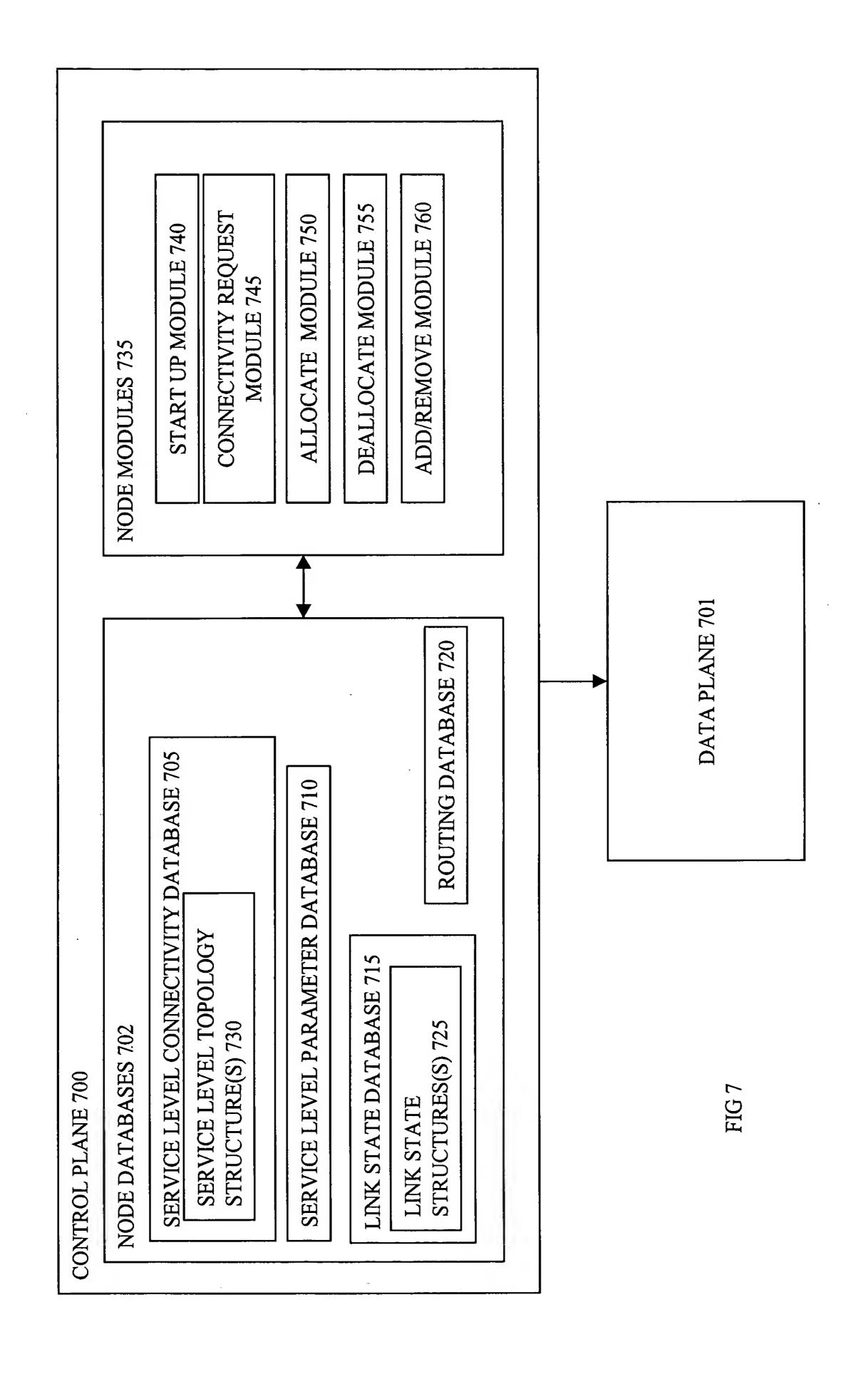
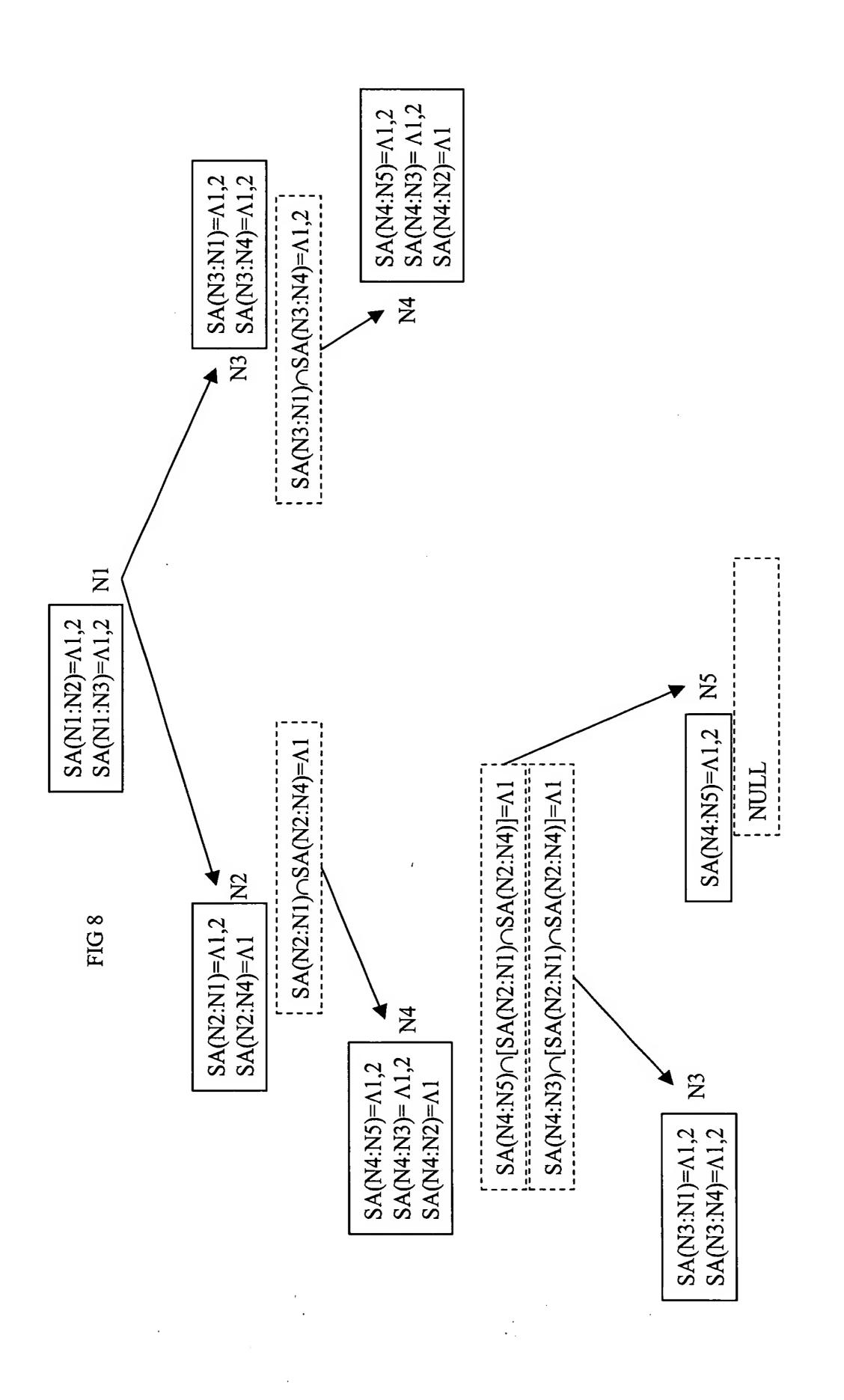


TRACK AS FOR EACH LINK 505 MAINTAIN CLASSIFICATION OF AS FOR EACH LINK BY QOS CRITERIA TO DETERMINE SERVICE LEVEL LINK AS 510 FOR EACH SERVICE LEVEL, MAINTAIN SERVICE LEVEL CONNECTIVITY BASED ON **CONVERSION CRITERIA 515** FIG. 5 FIG. 6 RECEIVE DEMAND CRITERIA 605 DETERMINE SERVICE LEVEL IF NOT SPECIFIED 610 IS A PATH **AVAILABLE AT** THAT SERVICE LEVEL? 615 NO YES TAKE ALTERNATE ACTION 625 SELECT AND ALLOCATE Λ 620





RESPONSIVE TO RECEIPT OF Λ PARAMETERS AND SERVICE LEVEL PARAMETERS 905

DETERMINE THE NUMBER OF SERVICE LEVELS 910

FIG. 9

FOR EACH LINK TO AN ADJACENT NODE, CLASSIFY AS BY SERVICE LEVEL PARAMETERS TO FROM LINK SERVICE LEVEL CHANNEL SETS 915

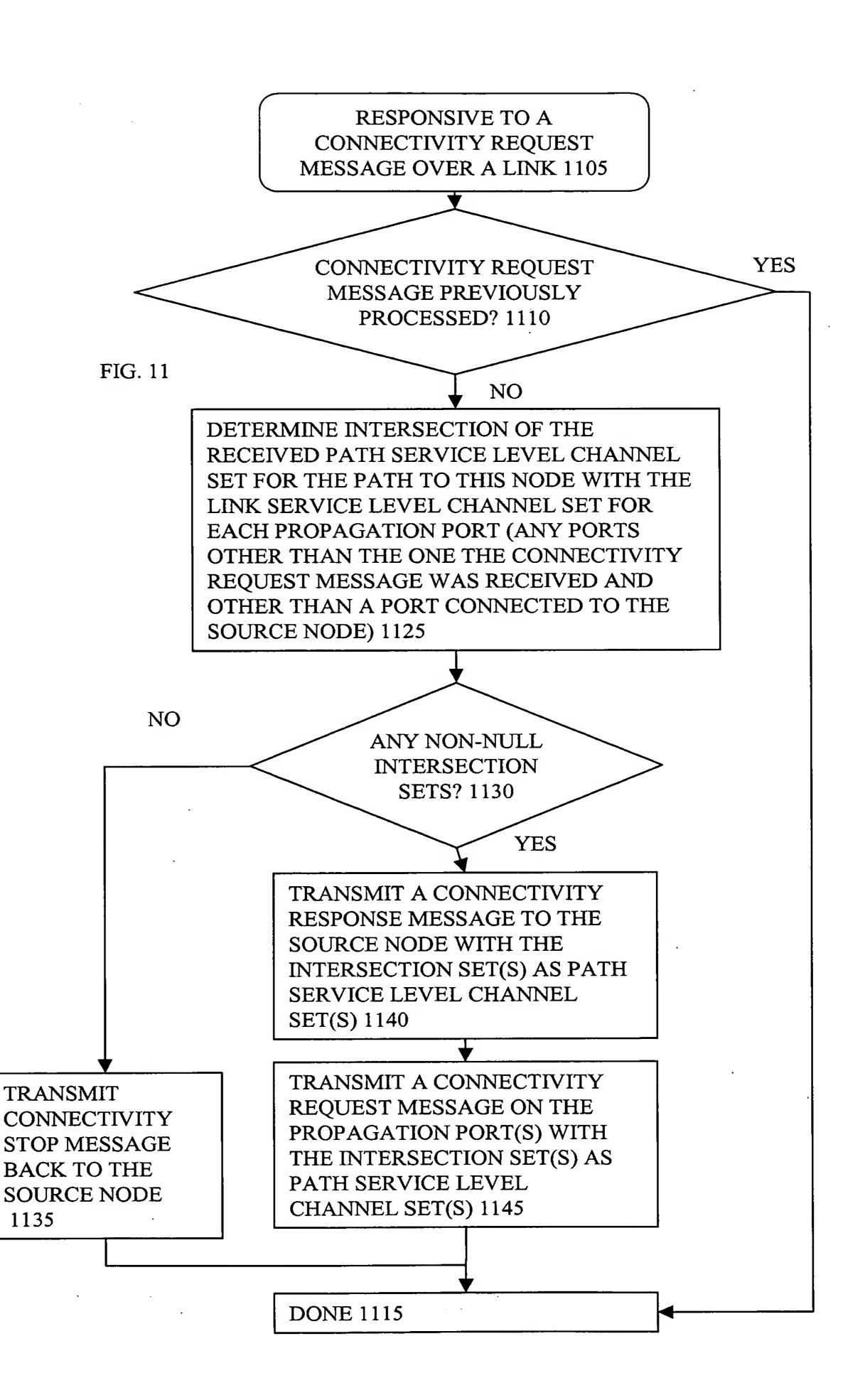
FOR EACH SERVICE LEVEL, INITIATE A SERVICE LEVEL TOPOLOGY BUILD UP 920

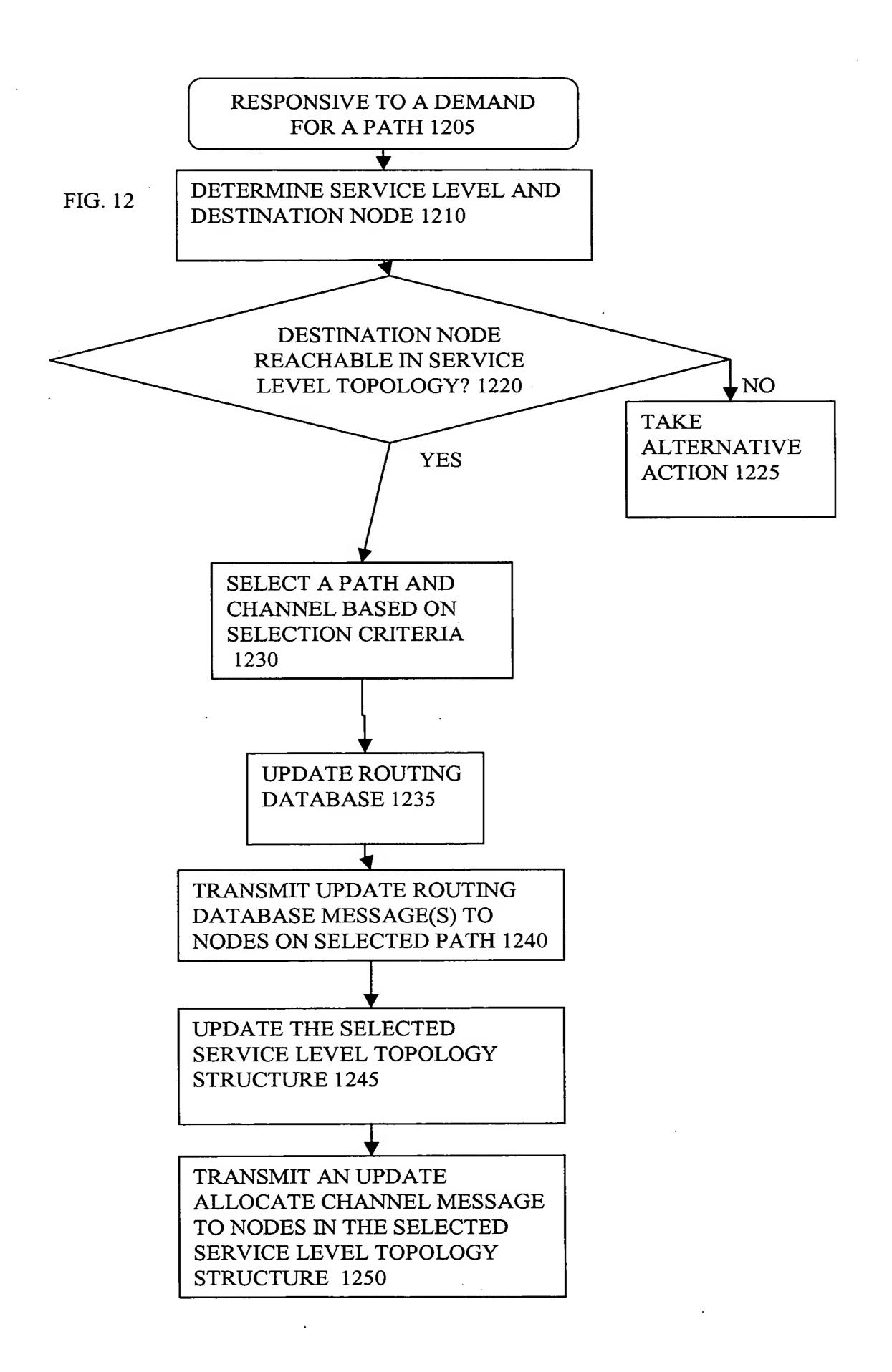
INSTANTIATE A SERVICE LEVEL
TOPOLOGY STRUCTURE AND
POPULATE WITH ANY
QUALIFYING ADJACENT NODES
(ADJACENT NODES FOR WHICH
THIS SOURCE NODE HAS ANY
NON-NULL LINK SERVICE
LEVEL CHANNEL SETS AT THIS
SERVICE LEVEL) 1005

FIG. 10

TRANSMIT CONNECTIVITY
REQUEST MESSAGE(S) TO
QUALIFYING ADJACENT
NODE(S) 1010

RESPONSIVE TO CONNECTIVITY
RESPONSE MESSAGES(S),
UPDATE THE SERVICE LEVEL
TOPOLOGY STRUCTURE 1015

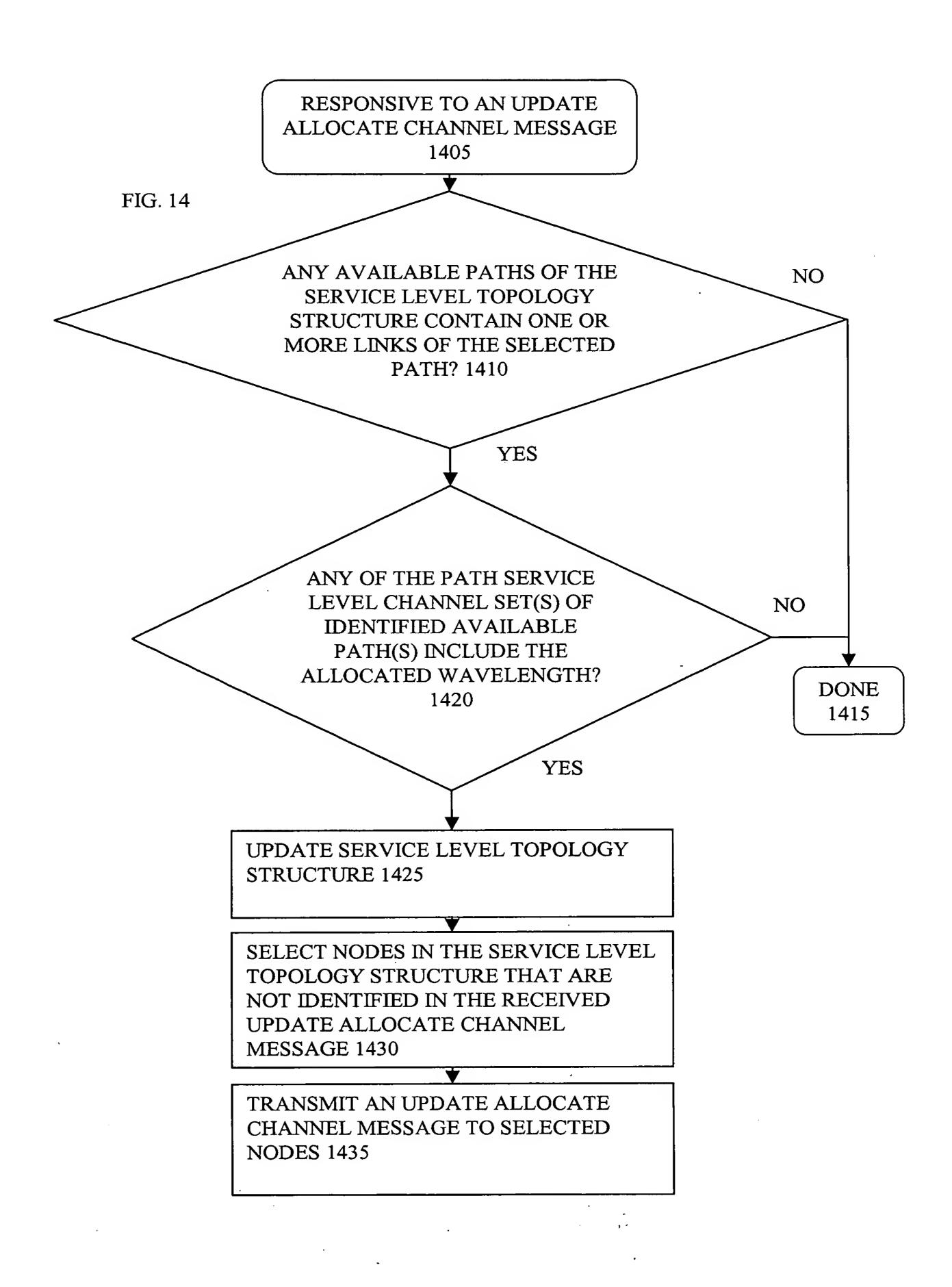


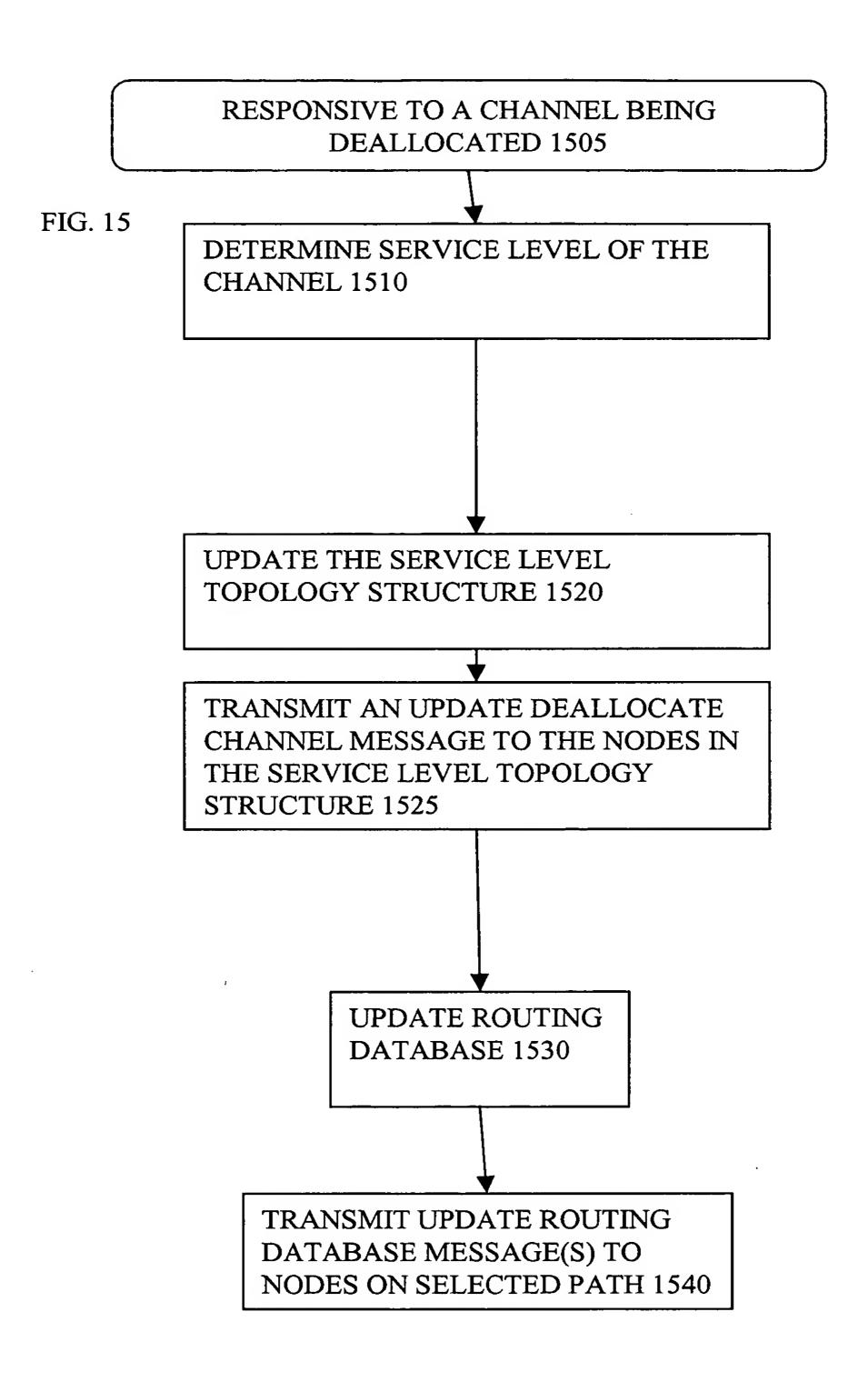


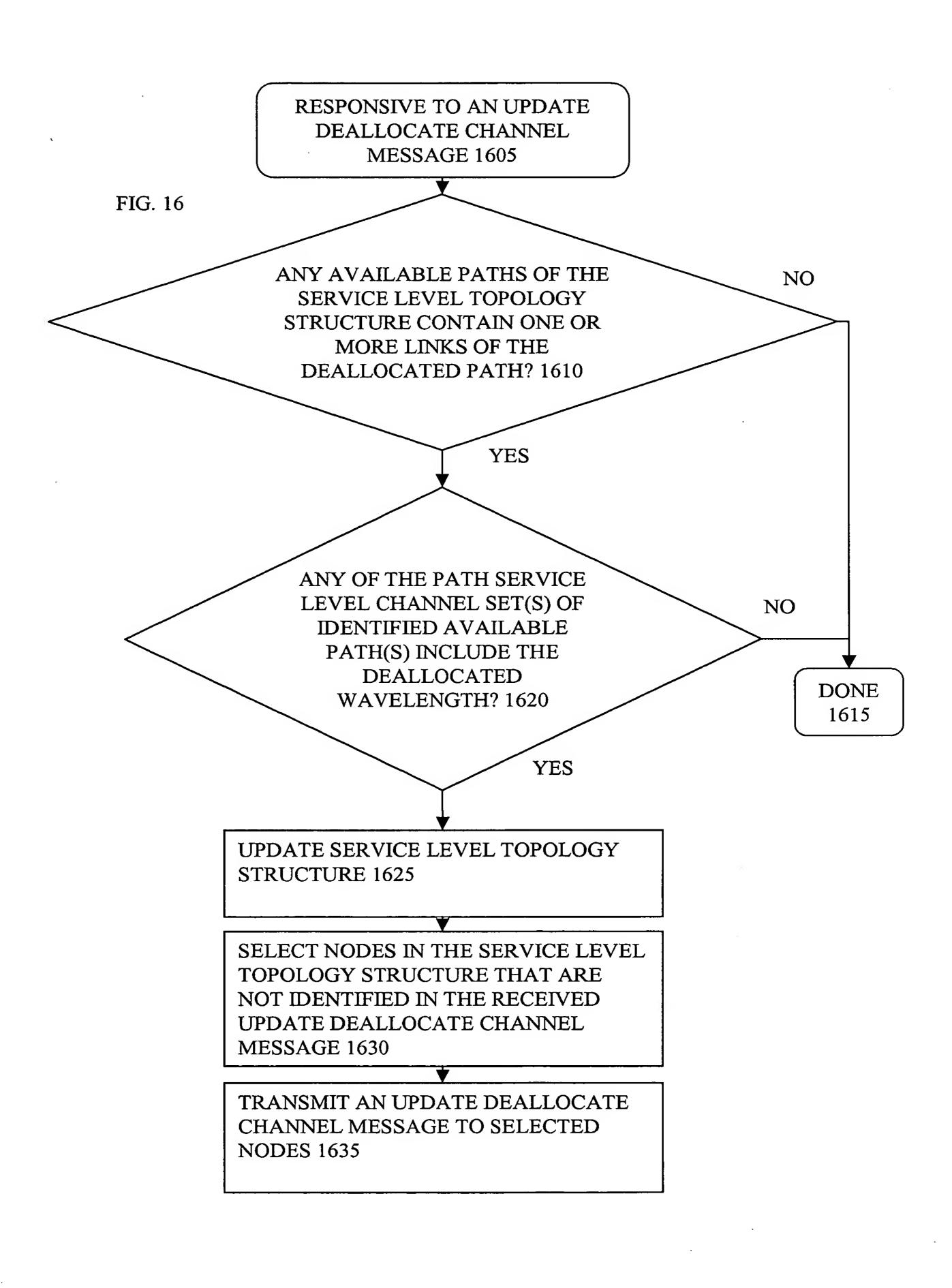
RESPONSIVE TO AN UPDATE ROUTING DATABASE MESSAGE 1305

FIG. 13

UPDATE ROUTING DATABASE 1310







RESPONSIVE TO A CHANNEL BEING ADDED OR A CHANNEL WITHOUT LIVE TRAFFIC BEING REMOVED 1705

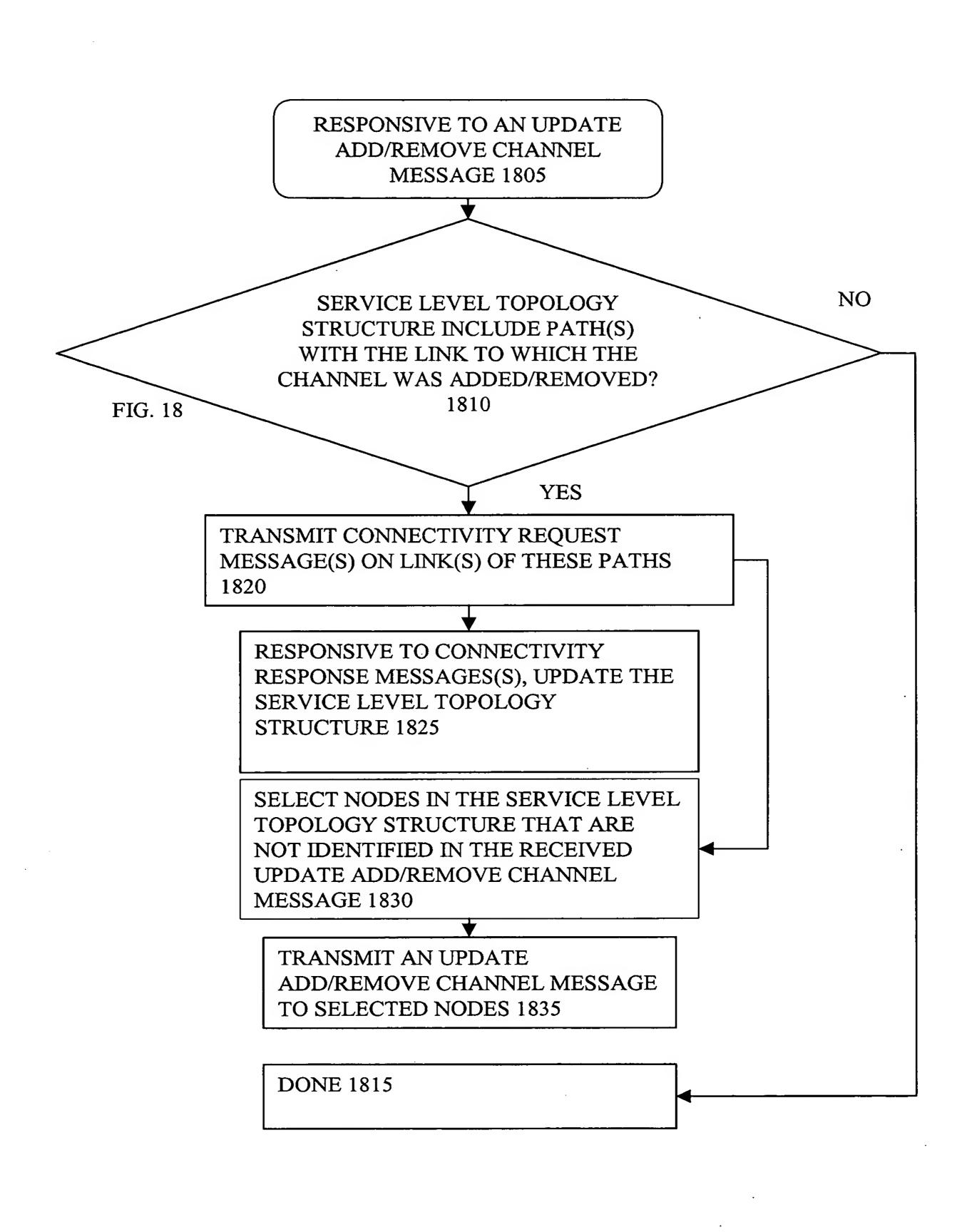
FIG. 17

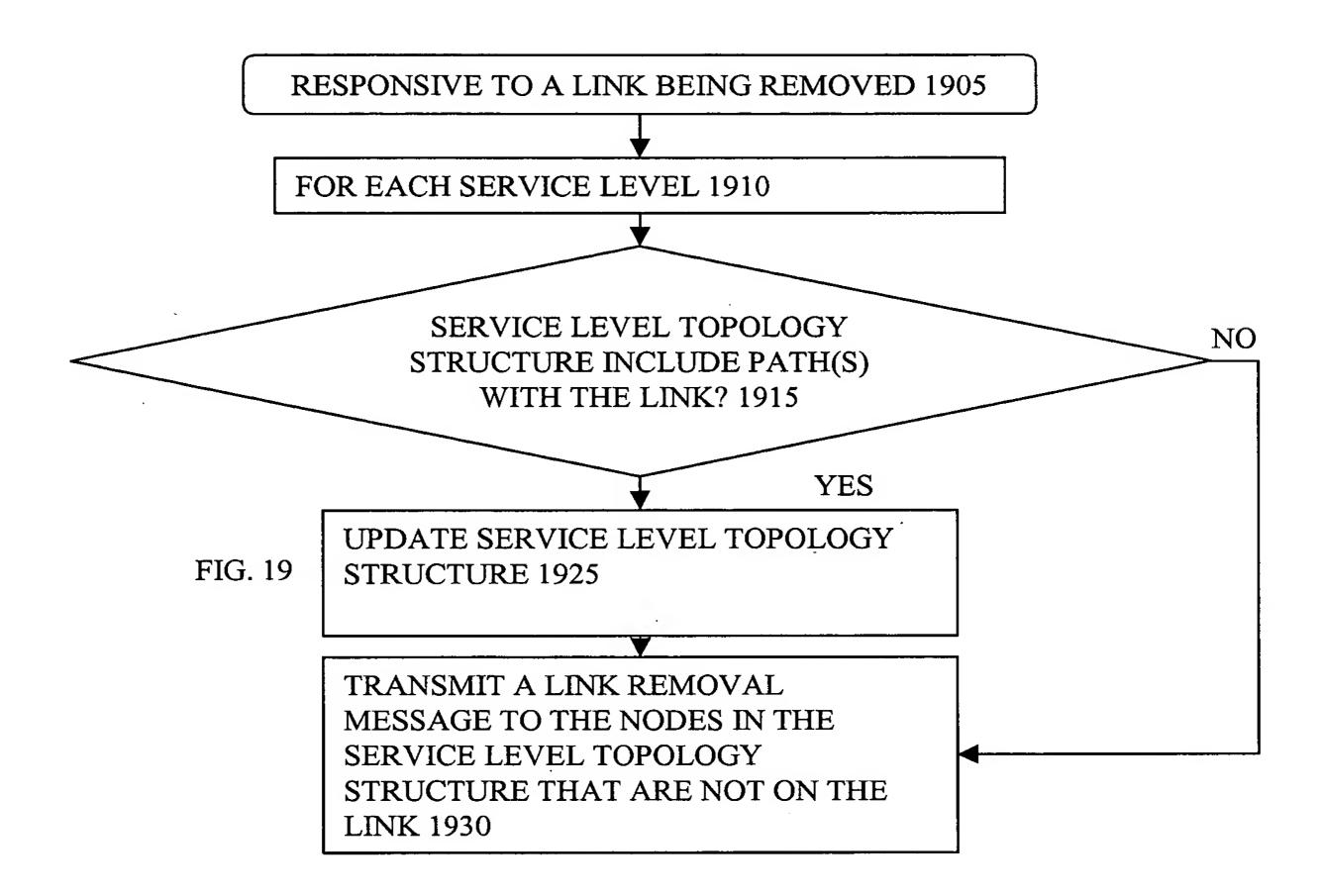
DETERMINE SERVICE LEVEL OF THE CHANNEL 1710

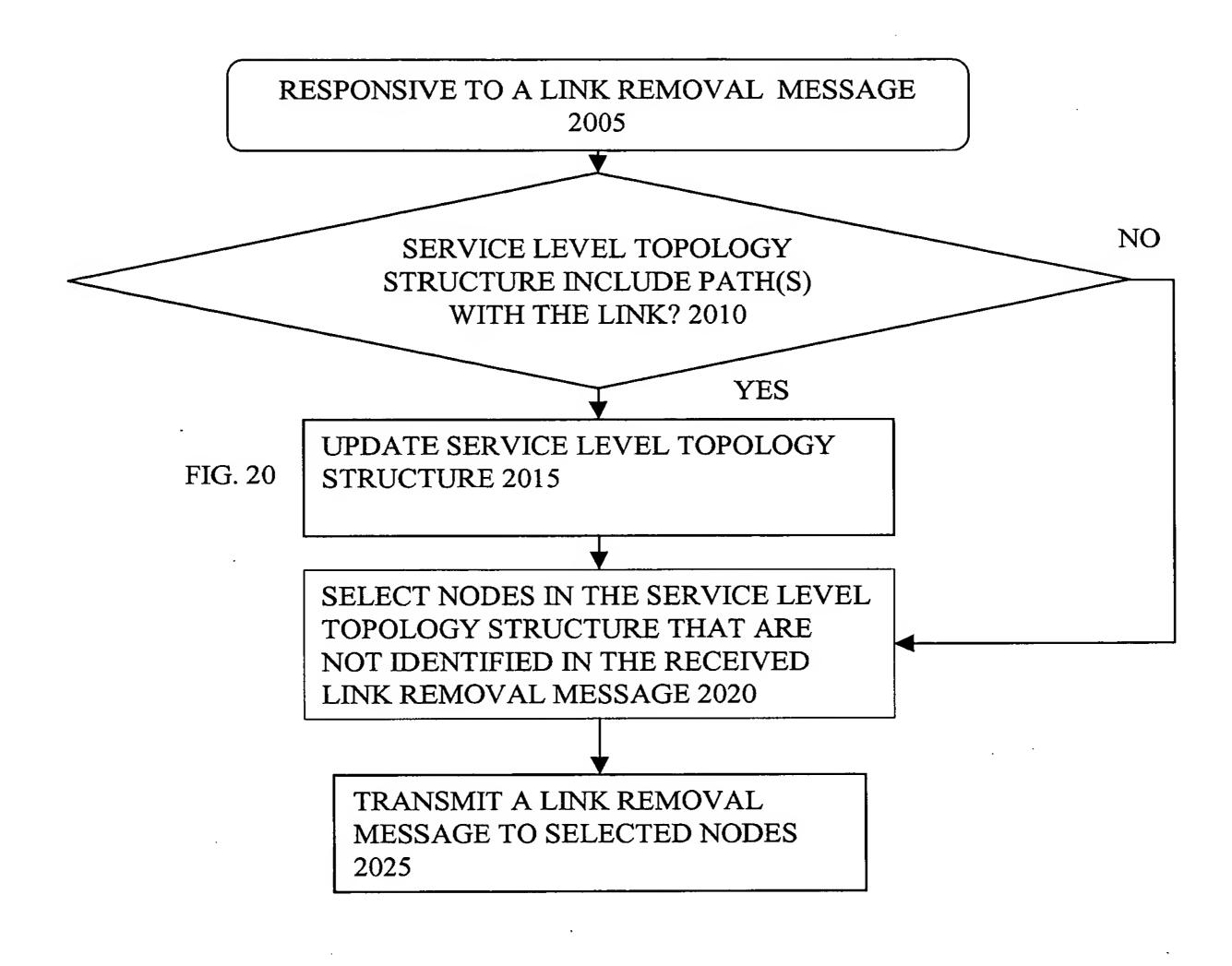
TRANSMIT CONNECTIVITY REQUEST MESSAGE ON THE LINK WITH THE CHANNEL 1715

RESPONSIVE TO CONNECTIVITY
RESPONSE MESSAGES(S), UPDATE THE
SERVICE LEVEL TOPOLOGY
STRUCTURE 1720

TRANSMIT AN UPDATE ADD/REMOVE CHANNEL MESSAGE TO THE NODES IN THE SERVICE LEVEL TOPOLOGY STRUCTURE THAT ARE NOT ON THE LINK WITH THE CHANNEL 1725







RESPONSIVE TO A LINK BEING ADDED 2105

FOR THE ADDED LINK, CLASSIFY AS BY SERVICE LEVEL PARAMETERS TO FROM LINK SERVICE LEVEL CHANNEL SETS 2107

FOR EACH SERVICE LEVEL 2110

FIG. 21

TRANSMIT CONNECTIVITY
REQUEST MESSAGE(S) TO
QUALIFYING ADJACENT
NODE(S) 2115

UPDATE THE SERVICE LEVEL TOPOLOGY STRUCTURE 2120

TRANSMIT A LINK ADDITION
MESSAGE TO NODES IN THE
SELECTED SERVICE LEVEL
TOPOLOGY STRUCTURE
2125

RESPONSIVE TO A LINK ADDITION MESSAGE 2205

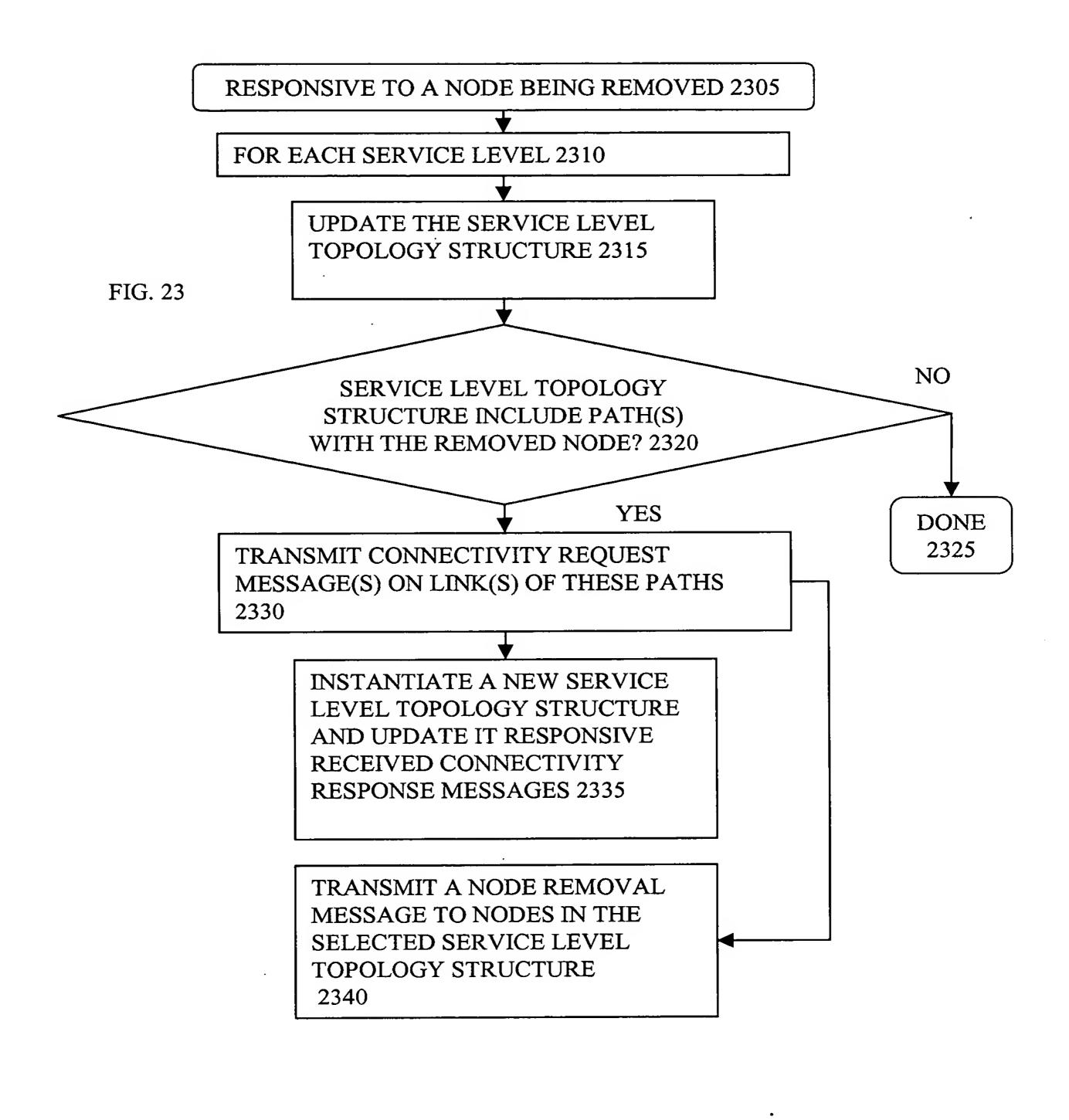
TRANSMIT CONNECTIVITY
REQUEST MESSAGE(S) TO
QUALIFYING ADJACENT
NODE(S) 2210

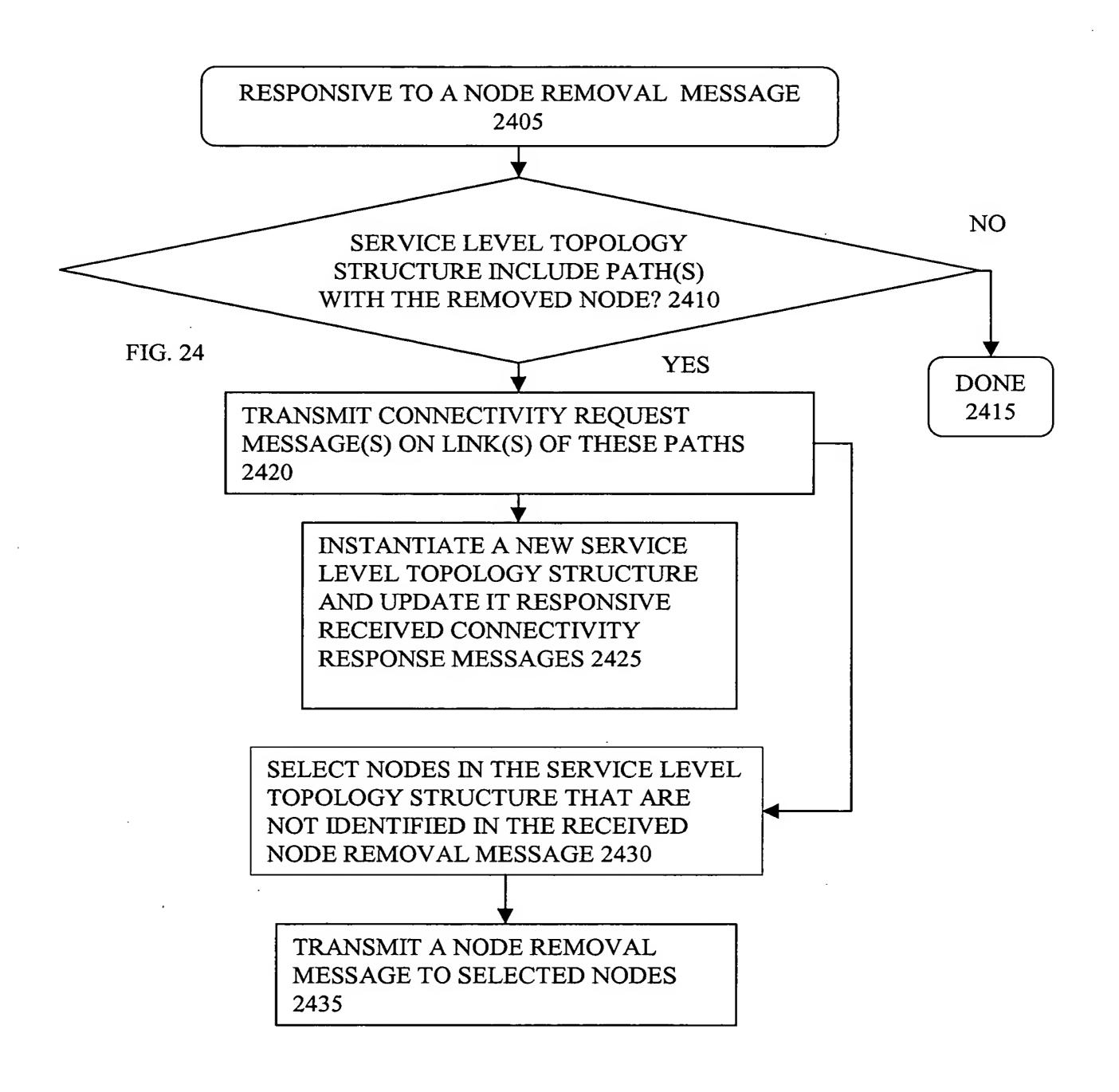
FIG. 22

RESPONSIVE TO CONNECTIVITY RESPONSE MESSAGES(S), UPDATE THE SERVICE LEVEL TOPOLOGY STRUCTURE 2215

SELECT NODES IN THE SERVICE LEVEL TOPOLOGY STRUCTURE THAT ARE NOT IDENTIFIED IN THE RECEIVED LINK ADDITION MESSAGE 2220

TRANSMIT A LINK ADDITION MESSAGE TO SELECTED NODES 2225





RESPONSIVE TO A NODE ADDITION MESSAGE 2405

TRANSMIT CONNECTIVITY
REQUEST MESSAGE(S) TO
QUALIFYING ADJACENT
NODE(S) 2510

FIG. 25

INSTANTIATE A NEW SERVICE LEVEL TOPOLOGY STRUCTURE AND UPDATE IT RESPONSIVE RECEIVED CONNECTIVITY RESPONSE MESSAGES 2515

SELECT NODES IN THE SERVICE LEVEL TOPOLOGY STRUCTURE THAT ARE NOT IDENTIFIED IN THE RECEIVED NODE ADDITION MESSAGE 2520

TRANSMIT A NODE ADDITION MESSAGE TO SELECTED NODES 2525